

SEALED TYPE NICKEL ZINC PRIMARY CELL

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Applicant: TOSHIBA BATTERY

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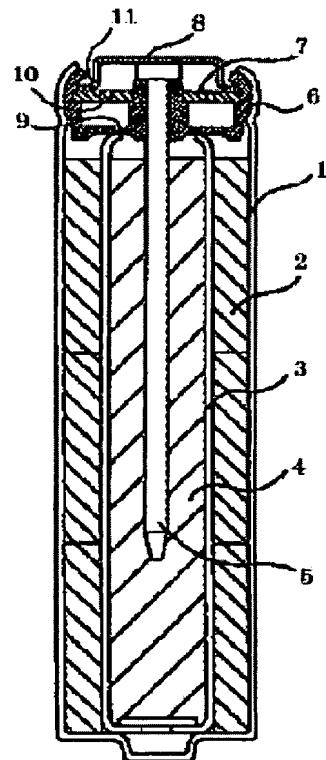
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Abstract of JP2004006092

PROBLEM TO BE SOLVED: To provide an alkaline primary cell excelling in high rate discharge property and with little rise in internal pressure due to the generation of hydrogen when over-discharged.

SOLUTION: In a sealed type nickel zinc primary cell, positive electrode making nickel higher order oxide into anode active substance in a container, cathode making zinc or its alloy into cathode active substance, a separator and electrolyte are at least contained. In the positive electrode, manganese dioxide is added for 3 to 7 masses % of nickel higher order oxide. The ratio of theoretical capacity of the cathode and the theoretical capacity of the positive electrode (cathode theoretical capacity / positive electrode theoretical capacity) is made to be within the range of 1.2 to 1.0.

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